

## What's New (Official Release 8.0)

In Enterprise Dynamics 8.0 a lot of developments have been spend on improving the atoms available in the libraries.

### Release Notes

Below are all the issues handled during the development of Enterprise Dynamics 8. We have listed them in several categories and you can find details of all these issues in our online support tracking system.

Visit the support section on [www.incontrolsim.com](http://www.incontrolsim.com) to login in to Incontrol JIRA.

### New Atoms

[APP-92]	Atom to display all attributes of Animatom
[NLS-2]	New Advanced Automated Storage/Retrieval System (ASRS)
[NLS-6]	New Advanced Robot
[NLS-9]	New AVI Recorder
[NLS-10]	New atom Corner Transfer Unit
[NLS-12]	New atom Ground Storage
[NLS-14]	New atom Transfer car (Verteilwagen)
[NLS-33]	New atom RFID-Gate

### Other New Features

[APP-152]	Automatically Create Library file
[APP-153]	Shortcut for saving atom (Ctrl + Shift + A)
[APP-154]	Automatically Create Preregister Function File
[APP-159]	3D Modeling Functionality
[LOG-58]	Adding status to the Stacker atom
[LOG-67]	Functionality for the warehouse to place a product in 'First Available Location In Row' or 'First Available Location In Column'
[NLS-17]	New Triggers
[NLS-22]	Improvement of behavior of right curve accumulating conveyor
[NLS-23]	Improvement of Advanced Non Accumulating Conveyor Curved
[NLS-24]	Improvement of performance of right curved non accumulating conveyor
[NLS-25]	Improvement of Advanced Accumulating Conveyor Curved
[NLS-26]	Improvement of Left Curved Accumulating Conveyor
[NLS-27]	Improvement of Left Curved Non Accumulating Conveyor
[NLS-28]	Improvement of Advanced (Non) Accumulating Conveyor Straight
[NLS-29]	Improvement of Accumulating Conveyor
[NLS-30]	Improvement of Non Accumulating Conveyor
[NLS-31]	Improvement of Speed Changing Conveyor
[NLS-32]	Improvement of Buffer Conveyor
[NLS-36]	Improvement of Node Manipulator
[NLS-37]	Speed limits on the network
[ED-134]	Possibility to retrieve the local IP address for individual NIC's
[ED-147]	Trace output to file
[ED-213]	4DS command to retrieve the default camera setting
[ED-234]	Hide Close button of main application window and right mouse click option in taskbar to Close ED (to prevent a user to close ED manually)
[ED-235]	ActiveX-new command like 'GetOle'
[ED-241]	Function to remove 3D model from atom: RemoveModel3D
[ED-247]	Stop Time and Random Generator Properties in Run Controller
[ED-248]	New Atom Editor
[ED-249]	XP/Vista look
[ED-250]	Example Wizard
[ED-253]	UnDefineFunction function
[ED-257]	InViewField. (Was: Addition of a Focal distance function, returning this value)
[ED-261]	Function to get free memory on disk

[ED-273] Quick start to 3D animation

### General updates

[APP-23] Updated screenshots in Training material  
[APP-33] Updated screenshots in educational material of Educational Suite  
[APP-164] Change tutorial with new house style and according ED8 (All Languages)  
[APP-171] Evaluation Version of ED 8.0 without the main NLS atoms  
[APP-184] Educational Suite slides updated to ED8  
[LOG-63] Clarification that Conveyor\_ functions only work with advanced conveyors  
[NLS-3] Restructured ED help part 'Atom Reference Guide'  
[NLS-4] Restructured Logistics Library  
[NLS-7] Restructured Conveyors  
[NLS-19] Add att 'isConveyor' to all conveyors  
[NLS-39] Standardization of Logistics Suite GUI parameter units  
[NLS-41] Interaction NLS with ED8.0  
[NLS-43] ED Tutorial Annex 2 / Adding description of NLS atoms  
[ED-173] Document all undocumented hardcoded 4DScript functions

### Smaller improvements

[APP-60] Smooth recording of AVI movies  
[APP-85] Removal of restrictions in the Time Schedule Availability  
[APP-112] Documented Soft coded 4DScript functions on Transporter  
[APP-128] Check assembler input  
[APP-129] Remove multitransform "nr of rows" and use table dimensions instead  
[APP-137] Allow Copy Paste from Excel into Arrivals table  
[APP-141] Categorize "product spacing" in category "conveyor" instead of "transport"  
[APP-123] Using [TABLE] in PFM experiment wizard display headers in report  
[APP-146] Help text for command DelayEvents  
[APP-147] Some of the tutorial models point to an excel sheet of version 6.  
[APP-175] Function TreeIcon to get the tree icon which can be found on the atom sheet  
  
[LOG-1] Extra statuses for Advanced Transporter (charging batteries, blocked)  
[LOG-15] Request for advanced conveyors (GUI) to have no of legs feature.  
[LOG-47] Assembler atom GUI: renamed "Additional" area under "General" to "Settings"  
  
[LOG-48] Arrival list: update help files  
[LOG-55] Operator overrides status of Server atom.  
[LOG-56] Define statuses for stacker atom  
[LOG-60] Make the interpretation of the parameter "length" of an elevating conveyor selectable  
  
[LOG-70] Calculate Z-Transform coordinates of elevator for moving and setPos  
[LOG-43] Crane sheet is superfluous  
[LOG-44] Correct exit length for right and left curved accumulating conveyors  
[LOG-65] Left Curved Non Accumulating Conveyor / Left Curved Accumulating Conveyor, products are rotated 180° around self while conveying.  
  
[LOG-72] The Elevator atom does not have any routines to resemble different applications  
  
[LOG-83] Clarification of status 'closed' for a Reservoir  
[LOG-99] Advanced Vertical Articulated Robot / pull mode  
[LOG-101] Correctly set turntable in the example  
[NLS-5] Improve textbox atom  
[NLS-13] Redesign of 'User Event'  
[NLS-47] Fix selection order of Edit-Fields etc. in GUIs when using the tab-button of the keyboard  
  
[ED-17] Run the scenario manager with 1 experiment.  
[ED-32] 4DScript command to turn on/off "Save Binary" and "Save Encrypted" options  
  
[ED-40] Layers vs. SelectVisible in 2dDraw  
[ED-45] Return value of GuiAtom  
[ED-93] The preferences allow setting the camera defaults twice

- [ED-118] Increase number of channel to be more than 255
- [ED-129] Apply button for the 'Set 2D background' window
- [ED-186] Add file extension to exported bitmaps
- [ED-187] Speed up Sorttable
- [ED-201] Gantt chart functionality improvements
- [ED-219] Enable 2D background on a specific animation engine
- [ED-220] Function to access 'Draw in layer order' option under Preferences by code
- [ED-227] Customer license info code in about Enterprise Dynamics (and splash)
- [ED-231] Option to get current language info for multi-language and an option to switch language in the preferences
- [ED-232] Help for ScrollBox
- [ED-237] GuiDestroy help
- [ED-243] Align to custom grid size gives fractions
- [ED-246] Change dongleless license activation from FTP to HTTP
- [ED-251] Document GetOle () in help file
- [ED-259] Shortcuts like 'ctrl + c' in a table on the Table tab of the Atom Editor
- [ED-281] GuiParameters return both string and value
- [ED-352] Item data for Tree View

### Fixed Bugs

- [APP-111] Fast conveyors (GUI) don't take over the length when changing it in the 2D view
- [APP-117] History Viewer only exports 1 line
- [APP-118] Preferences from camera are not taken over by the 3D view
- [APP-119] Gantt Chart labels not correct displayed
- [APP-120] The ExcelTableRead atom lost functionality
- [APP-121] Using [TABLE] in PFM experiment wizard does not work
- [APP-125] The visualization of the serving level of the Multiservice-Atom does not work properly: the "level vertical"-option produces a strange mix of vertical and horizontal effects
- [APP-127] Call and Sendto Operator rules are incorrect.
- [APP-133] Subscript setting monitor are overwritten
- [APP-134] Predefined logic "shortest queue" attempts to send products to unavailable output channels.
- [APP-140] OptQuest, GUI of Variable Atom, OnShow, Update expression not updated
- [APP-148] In Educational Suite flow shop models have MCBF and MTTR stated but these should be zero
- [APP-150] Changing "Atom Name" in GUIs of status atoms does not take effect
- [APP-158] ForAtomLayerUnder is always executed (in OnEntered and OnExited events)
- [APP-160] ExcelTableRead and ExcelTableWrite GUI option 'Excel visible at startup' fails
- [APP-161] Table atom alias checking of GUI is incomplete/wrong
- [APP-162] Report atom ignores the specified "number of decimals" in the results
- [APP-165] ArrivalList GUI stores label values into the wrong record line when adding a new record line to the table
- [APP-166] Excel Atom opens multiple instances
- [APP-167] Finished product can pass each other in a multiservice
- [APP-168] F1 in library tree doesn't work
- [APP-169] All tutorial models have product and container atoms with old GUI style and all servers have code for MTTF etc that should not be there
- [APP-174] Excel atom does not save table names
- [APP-176] The Product GUI does not check the Show 2D Icon option correctly for products in the model or products with altered settings
- [APP-177] Incorrect variable declarations
- [APP-180] On reset the name of the Data recorder atom is replaced by the table name
- [LOG-11] SoftStartED line in AllConveyors.mod uses Enterprise Dynamics.app to start ED

[LOG-41] Turntable angles and capacity are wrong  
[LOG-52] Operator offset doesn't work  
[LOG-53] Incorrect travel empty status of portal crane  
[LOG-54] Advanced conveyor gives error that in () does not exist  
[LOG-57] Rotated atoms are not supported in a node network  
[LOG-62] Advanced Non Accumulating Conveyor  
[LOG-64] Advanced conveyor delay times  
[LOG-66] The Stopconveyor function throws errors  
[LOG-71] Elevator example requires 4DS in capacity. This is not a 4DS field in the GUI resulting in problems.  
[LOG-73] When changing speed of Conveyor the 3D visualization (texture) speed is not adjusted  
[LOG-74] Reservoir GUI generates errors in OnEvent code  
[LOG-77] Products on advanced conveyors don't tilt when conveyors are elevated  
[LOG-80] zLoc OnEntered uses xsize instead of zSize  
[LOG-88] Reservoir atom creates error after opening the GUI and introducing changes  
[LOG-4] Statistics Advanced Transporter: Input not correct  
[LOG-59] Transportation height of Adv Conveyors is wrong  
[LOG-61] AdvancedTransporter\_SetDestination requires parameters  
[LOG-75] Errors when deleting the Portal Crane  
[LOG-81] Travelto command in Elevator uses orientation flag  
[LOG-89] Wrong reference in Dispatcher GUI  
[LOG-90] Wrong reference in Destinator GUI  
[LOG-91] Warehouse placing does not work (correctly)  
[LOG-92] Portal Crane: The detailed movement parameters are shown as numbers in the GUI.  
[LOG-95] Advanced Transporter atom, Event 6 refers to network nodes even if the Transporter is not connected to network  
[LOG-97] Send to-Strategy 4 "Random open channel..." does not work with atom "Turntable Unit"  
[LOG-98] Non accumulating conveyor straight loses geometric changes by mouse  
[LOG-100] Advanced Transporter and Battery Charging Station  
[LOG-102] Adv non acc conv straight does not recognize geometry changes by mouse  
[LOG-103] CLONE -Selection order of Edit-Fields etc. is irritating in most of the GUIs when using the tab-button of the keyboard  
[LOG-104] Adv Transporter does not drive to destination  
[LOG-105] Elevator changes color of products in 3D when entering  
[LOG-106] Left curved conveyor displays 3D incorrect  
[LOG-107] Conveyors calculate "physical length" differently  
[LOG-108] Non-unique naming in Conveyor GUIs  
[LOG-109] Kanban Bin does not set Hide channels option of products  
[NLS-18] The visualization of the curved conveyors in 3D is looking less, then that of the straight conveyors  
[NLS-21] Advanced Non Accumulating Conveyor Curved: event is triggered by mistake.  
[ED-10] SmartEdit GUI control loses formatting & comments  
[ED-34] Workdir is not stored  
[ED-39] Subatoms placed in wrong layer  
[ED-70] WhichIsTrue stops evaluating when there is a non boolean included  
[ED-76] Parameter -hidden in SoftStartED triggers restart of .app  
[ED-107] The menu dialog for a background has two spaces for size without identification.  
[ED-137] Real time simulation is not working correctly  
[ED-142] Access Violation on cancelling the function editor  
[ED-144] Use of relative directories  
[ED-158] Color of vrml object is incorrect  
[ED-181] Changing the layer of an atom with the 'Layer'- function in OnCreation does not work any longer

[ED-183] 4th argument (force as number) to Sortable function doesn't work  
[ED-184] Input dialog pops up on startup  
[ED-188] Access violations with new function HideAtomInTree  
[ED-191] Educational Suite License not recognized by software  
[ED-198] XMLGetXMLString: Help file incorrect  
[ED-199] Command line parameter does not execute ed.app (and misses addlayer)  
[ED-204] Dijkstra optimization is restricted to 1000 nodes  
[ED-209] Security Add-on license details don't work  
[ED-211] Modal form cannot execute destroyatom  
[ED-228] Remove registry of .mod file from Engine  
[ED-165] Code completion doesn't work correctly  
[ED-189] Setting xspeed (atom) sometimes changes the atom's position  
[ED-190] Closeallic has no effect in some subtle cases  
[ED-192] Travelto function returns wrong value for small distances  
[ED-200] When attaching a file to an atom, the "set" command doesn't work  
[ED-206] 4D script interact adds extra carriage returns  
[ED-217] xabsMid and yabsMid functions return incorrect values when atoms are in a rotated container  
  
[ED-221] Repetitive option sometimes fails to produce exactly the same simulation  
[ED-222] If 2DEngine property visible is false then the 2D drawing is still executed  
[ED-230] ED crashes due to problem with atioglxx.dll  
[ED-239] AtomExists returns true while no valid atom exists  
[ED-240] Setting xSpeed, ySpeed, or zSpeed with := doesn't work correctly  
[ED-242] Transparency does not work in 2D or 3D  
[ED-244] Access violation occurs when a new window is opened  
[ED-245] Access violations with creation order in GUI builder  
[ED-255] ED crashes when using viewX on On2dDraw event handler when simulation is stopped  
  
[ED-258] Access violations with order settings order in GUI builder  
[ED-260] Error message "DBGArrow" during start of ED with Database application  
[ED-264] The Solution wizard appears between the screens on a 2 screen system  
[ED-268] XMLclosedocument crashes ED  
[ED-270] Order for setting active row and executing select cell not correct for GUI table  
  
[ED-272] Evaluation Cannot be extended  
[ED-278] Incrementing table rows-count with 1 many times results 'Out of Memory' error  
[ED-279] Scroll wheel does not work in library tree, and scrolling with the scrollbar only updates the screen when the mouse is released  
  
[ED-285] Too many OPC DataChangeEvents  
[ED-287] Function OPCDeleteDataChangeEvent return value unclear  
[ED-291] Edit field of graph atom does not show text for the fields that can be edited  
[ED-340] Open in atom editor does not work  
[ED-342] Delete selected text in atom editor field will delete the atom